IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of: David J. Ecker, et al.

Serial No.: 10/660,997

Group Art Unit: Not Yet Assigned

Filing Date: September 12, 2003

Examiner: Not Yet Assigned

For: METHODS FOR RAPID DETECTION AND

IDENTIFICATION OF BIOAGENTS IN EPIDEMIOLOGICAL AND FORENSIC

INVESTIGATIONS

DATE OF DEPOSIT: 23 DECEMBER 15 BEING HEREBY CERTIFY THAT THIS PAPER IS BEING DEPOSITED WITH THE UNITED STATES POSTAL SERVICE AS FIRST CLASS MAIL, POSTAGE PREPAID ON THE DATE INDICATED ABOVE AND IS ADDRESSED TO THE COMMISSIONER FOR PATENTS, P.O. BOX 1450, ALEXANDRIA, VA 22313-1450

TYPED NAME:Paul K. Legaard REGISTRATION NO: 38,534

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Dear Sir:

INFORMATION DISCLOSURE STATEMENT

Pursuant to 37 C.F.R. §§ 1.56 and in accordance with 37 C.F.R. §§ 1.97 and 1.98, information relating to the above-identified application is hereby disclosed, the Examiner in charge of the above-identified application is requested to consider and make of record the references listed on the PTO Form SB/08A and PTO Form SB/08B, formerly known as PTO Form 1449 submitted herewith.

Inclusion of the information submitted herewith is not to be construed as an admission that the information is material as that term is defined in 37 C.F.R. § 1.56(b).

In accordance with 37 C.F.R. § 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made.

This I	nforma	ation Disclosure Statement is being filed:
	within	three months of the filing date of the patent application.
		three months of the date of entry into the national stage as set forth in F.R. § 1.491 of the international application.
\boxtimes	befor	e the mailing date of a first Office Action on the merits.
	mailin	the mailing date of a first Office Action on the merits, but before the g date of a Final Office Action under 37 C.F.R. § 1.116 or a Notice of rance under 37 C.F.R. § 1.311, and accordingly is accompanied by:
		the Statement under 37 C.F.R. § 1.97(e) (see "Statement" below);
		or
		the Fee of \$180.00 set forth in 37 C.F.R. § 1.17(p); or
	\boxtimes	No fee is owed by the applicant(s).
	Staten Final C.F.R	cordance with 37 C.F.R. § 1.129(a), this Information Disclosure nent is being filed in connection with \square the first or \square second After Submission, and accordingly is accompanied by the Statement under 37. § 1.97(e) (see "Statement" below) and the fee of \$180.00 as set forth in F.R. § 1.17(p), is attached.
	Notice with, Staten Inform	the mailing date of a Final Office Action under 37 C.F.R. § 1.116 or a e of Allowance under 37 C.F.R. § 1.311, but before, or simultaneously the payment of the Issue Fee, and accordingly is accompanied by the nent under 37 C.F.R. § 1.97(e), a Petition requesting consideration of the nation Disclosure Statement and the Petition Fee of \$130.00 set forth in F.R. § 1.17(i)(1) (see "Statement," "Petition," and "Fees" below).
\boxtimes	-	s of references (S1-S44) listed on the attached PTO Form SB/08A and Form SB/08B, formerly known as PTO Form 1449 are enclosed herewith
	EXC	EPT THAT:
		In view of the voluminous nature of references @@, and the likelihood that these references are available to the Examiner, copies are not enclosed herewith.
		In accordance with 37 C.F.R. § 1.98(d), copies of the following references listed on the attached PTO Form SB/08A and PTO Form SB/08B, formerly known as PTO Form 1449 are not enclosed herewith because they were previously cited by or submitted to the U.S. Patent and Trademark Office in patent application(s) for which a claim for priority under 35 U.S.C. § 120 have been made in the instant application.

		Copies of references listed on the attached PTO Form SB/08A and PTO Form SB/08B, formerly known as PTO Form 1449 were previously cited by or submitted to the U.S. Patent and Trademark Office in parent application Serial No filed on
		If any of the foregoing publications are not available to the Examiner, Applicant will endeavor to supply copies at the Examiner's request.
Staten	nent un	der 37 C.F.R. § 1.97(e)
	in the foreign	Information Disclosure Statement was cited in a communication from a patent office in a counterpart foreign patent application not more than nonths prior to the filing of the Information Disclosure Statement.
Petitio	n	
	referen	ant(s) hereby petitions the Assistant Commissioner to consider the aces listed in this Information Disclosure Statement, on the enclosed form SB/08A and PTO Form SB/08B, formerly known as PTO Form and the examination of the above-identified patent application.
Fees		
\boxtimes	No Fee	e is owed by the applicant(s).
		information Disclosure Statement Fee of \$180.00 under 37 C.F.R. (p) is enclosed herewith.
	The Pe	etition Fee of \$130.00 under 37 C.F.R. § 1.17(i)(1) is enclosed herewith.
Metho	d of Pa	yment of Fees
		ed is a check in the amount of \$ This form is tted in duplicate.
	_	e Deposit Account No. 50-1275 in the amount of \$ orm is submitted in duplicate.
\boxtimes		charge any deficiency or credit any overpayment to Deposit ant 50-1275.

No fee or Statement is required under 37 C.F.R. § 1.97(b).

Respectfully submitted,

Dated: 27 DELEMBER 2003

COZEN O'CONNOR, P.C. 1900 Market Street, 5th Floor Philadelphia, PA 19103-3508 (215) 665-2000 – Telephone (215) 701-2013 - Facsimile Paul K. Legaard

Registration No. 38,534

PTO/SB/21 (08-03)
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		First N	amed Inventor	David J. 8	Ecker
(to be used for all correspondence after	initial filing)	Art Un	t	Not Yet A	ssigned
		Exami	ner Name	Not Yet A	ssigned
Total Number of Pages in This Submiss	ion 10	Attorne	ey Docket Number	IBIS0063	-100/DIBIS-0002US.P2
	ENCLO	SURES	check all that apply)		
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SIG	NATURE OF	APPLICA	ANT, ATTORNEY, C	R AGENT	
Firm or Individual name Paul K. Legaa	ard/Reg. No. 3	8,534			-
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I hereby certify that this corresponden Service with sufficient postage as fir Alexandria, VA 22313-1450 on the dat	st class mail ir	an enve	smitted to the USPTO elope addressed to: C	or deposited commissioner	with the United States Postal for Patents, P.O. Box 1450,
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AT Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Complete if Known **Application Number** 10/660,997 Filing Date September 12, 2003 First Named Inventor David J. Ecker Group Art Unit Not Yet Assigned **Examiner Name** Not Yet Assigned Attorney Docket Number IBIS0063-100/DIBIS-0002US.P2

(use as many sheets as necessary) of | 5 Sheet

Examiner	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	S1	BAKER, et al., "Review and re-analysis of domain-specific 16S primers," J. Microbiol. Methods (2003) 55:541-555.	
	S2	BENSON, et al., "Advantages of Thermococcus kodakaraenis (KOD) DNA polymerase for PCR-mass spectrometry based analyses," J. Am. Soc. Mass Spectrom. (2003) 14:601-604.	
	S3	BLACK. et al., "Detection of trace levels of tricothecene mycotoxins in human urineby gas chromatography-mass spectrometry," J. Chromatog. (1986) 367:103-115.	
	S4	CAMPBELL and HUANG, "Detection of California serogroup Bunyavirus in tissue culture and mosquito pools by PCR," J. Virol. Methods (1996) 57:175-179.	
	S5	CHEN, et al., "A universal PCR primer to detect members of the Potyviridae and its use to examine the taxonomic status of several members of the family," Arch. Virol. (2001) 146:757-766.	
_	S6	CONRADS, et al., "16S-23S rDNA internal transcribed spacer sequences for analysis of the phylogenetic relationships among species of the genus Fusobacterium," Intl. J. System. Evol. Micrbiol. (2002) 52:493-499.	
•	S 7	DASEN, et al., "Classification and identification of Propioibacteria based on ribosomal RNA genes and PCR," System. Appl. Microbiol. (1998) 21:251-259.	
	S8	DEFORCE, et al., "Characterization of DNA oligonucleotides by coupling of capillary zone electrophoresis to electrospray ionization Q-TOF mass spectrometry," Anal. Chem. (1998) 70:3060-3068.	
	S9	DEMESURE, et al., "A set of universal primers for amplification of polymorphic non-coding regions of mitochondrial and chloroplast DNA in plants," Mol. Ecol. (1995) 4:129-131.	
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	S11	FOX, et al., "Identification of Brucella by ribosomal-spacer-region PCR and differentiation of Brucell canis from other Brucella spp. pathogenic for humans by carbohydrate profiles," J. Clin. Microbiol. (1998) 36:3217-3222.	

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^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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Attorney Docket Number IBIS0063-100/DIBIS-0002US.P2 Sheet

		OTHER PRIOR ART NON PATENT LITERATURE DOCUMENTS	
Examiner Initials *	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²
	S12	FOX et al., "Report of the 'Bioterrorism Workshop", J. Microbol. Methods (2002) 51:247-254.	
- 	S13	GRIFFEY and GREIG, "Detection of base pair mismatches in duplex DNA and RNA oligonucleotides using electrospray mass spectrometry," SPIE (1997) 2985:82-86.	
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	S15	HANNIS and MUDDIMAN, "Accurate characterization fo the tyrosine hydroxylase forensic allele 9.3 through development of electrospray ionization Fourier transform ion cyclotron resonance mass spectrometry," Rapid. Comm. Mass Spectrom. (1999) 13:954-962.	
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,	S18	HAYASHI, et al., "Phylogenetic analysis of the human gut microbiota using 16S rDNA clone libraries and strictly anaerobic culture based methods," Microbiol. Immunol. (2002) 46:535-548.	
	S19	HOFFMANN, et al., "Universal primer set for the full-length amplification of all influenza A viruses," Arch. Virol. (2001) 146:2275-2289.	
	S20	ISOLA, et al., "MALDI-TOF mass spectrometric method for detection of hybridized DNA oligomers," Anal. Chem. (2001) 73:2126-2131.	
	S21	JANKOWSKI and SOLER, "Mass spectrometry of DNA: Part 2* Quantitative estimation of base composition," Eur. J. Mass Spectrom. Biochem. Med. Environ. Res. (1980) 1:45-52.	
<u> </u>	S22	KAGEYAMA and BENNO, "Rapid detection f human fecal Eubacterium species and related genera by tested PCR method," Microbiol. Immunol. (2001) 45:315-318.	

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First Named Inventor David J. Ecker

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Sheet 3 of 5 Attorney Docket Number IBIS0063-100/DIBIS-0002US.P2

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•	S23	LITTLE, et al., "Rapid sequencling of oligonucleotides by high-resolution mass spectrometry," J. Am. Chem. Soc. (1994) 116:4893-4897.	
	S24	LIU, et al., "Improving the microdialysis procedure for electrospray ionization mass spectrometry of biological samples," J. Mass Spectrom. (1997) 32:425-431.	
	S25	MANGRUM, et al., "Solution composition and thermal denaturation for the production of single-stranded PCR amplicons: piperidine-induced destabilization of the DNA duplex," J. Am. Soc. Mass Spectrom. (2002) 13:232-240.	
	S26	McCABE, et al., "Bacterial species identification after DNA amplification with a universal primer pair," Mol. Genet. Metab. (1999) 66:205-211.	
	S27	MEIYU, et al., "Detection of flaviviruses by reverse transcriptase-polymerase chain reaction with the universal primer set," Microbiol. Immunol. (1997) 41:209-213.	
	S28	MORICCA, et al., "Detection of Fusarium oxysporum f.sp. vasinfectum in cotton tissue by polymerase chain reaction," Plant Pathol. (1998) 47:486-494.	
	S29	MUDDIMAN, et al., "Characterization of PCR products from Bacilli using electrospray ionization FTICR mass spectrometry," Anal Chem. (1996) 68:3705-3712.	
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	S31	NULL, et al., "Preparation of single-stranded PCR products for electrospray ionization mass spectrometry using the DNA repair enzyme lambda exonuclease," Analyst (2000) 125:619-626.	
· <u>·</u> ·	S32	NULL, et al., "Evaluation of sample preparation techniques for mass measurements of PCR products using ESI-FT-ICR mass spectrometry," Am Soc. Mass Spectrom. (2002) 13:338-344.	

Examiner	Date	
Signature	Considered	

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First Named Inventor David J. Ecker

Group Art Unit Not Yet Assigned

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Sheet 4 of 5

		OTHER PRIOR ART NON PATENT LITERATURE DOCUMENTS	
Examiner Initials *	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²
	S33	NULL and MUDDIMAN, "Determination of a correction to improve mass measurement accuracy of isotopically unresolved polymerase chain reaction amplicons by electrospray ionization Fourier transform ion cyclotron resonance mass spectrometry," Rapid Comm. Mass Spectrom. (2003) 17:1714-1722.	
	S34	NULL and MUDDIMAN, "Perspectives on the use of electrospray ionization Fourier transform ion cyclotron resonance mass spectrometry for short tandem repeat genotyping in the post genome era," J. Mass Spectrom. (2001) 36:589-606.	
	S35	NULL, et al., "Genotyping of simple and compound short tandem repeat loci using electrospray ionization Fourier transform ion cyclotron resonance mass spectrometry," Anal. Chem. (2001) 73:4514-4521.	
	S36	NULL, et al., "Implications of hydrophobicity and free energy of solvation for characterization of nucleic acids by electrospray ionization mass spectrometry," Anal. Chem. (2003) 75:1331-1339.	
	S37	PENG, et al., "Rapid detection of Shigella species in environmental sewage by an immunocapture PCR with universal primers," App. Environ. Microbiol. (2002) 68:2580-2583.	
	S38	POMERANTZ, et al., "Determination of oligonucleotide composition from mass spectrometrically measured molecular weight," J. Am. Soc. Mass Spectrom. (1993) 4:204-209.	
	S39	ROSS, et al., "Discrimination of single-nucleotide polymorphisms in human DNA using peptide nucleic acid probes detected by MALDI-TOF mass spectrometry," Anal. Chem. (1997) 69:4197-4202.	
	S40	SCARAMOZZINO, et al., "Comparison of Flavivirus universal primer pairs and development of a rapid, highly sensitive heminested reverse transcription-PCR assay for detection of flaviviruses targeted to a conserved region of the NS5 gene sequences," J. Clin. Microbiol. (2001) 39:1922-1927.	
	S41	SHAVER, et al., "Restriction fragment length polymorphism of rRNA operons for discrimination and intergenic spacer sequences for cataloging of Bacilus subtilis sub-groups," J. Microbiol. Methods (2002) 50:215-223.	
	S42	SRINIVASAN, et al., "Matrix-assisted laser desorption/ionization time-of-flight mass spectrometry as a rapid screening method to detect mutations causing Tay-Sachs disease," Rapid Comm. Mass Spectrom. (1997) 11:1144-1150.	
	S43	STEFFENS and ROY, "Sequence analysis of mitochondrial DNA hypervariable regions using infrared fluorescence detection," Bio/Techniques (1998) 24:1044-1046.	

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	S44	WUNSCHEL, et al., "Mass spectrometric characterization of DNA for molecular biological applications: advances using MALDI and ESI," Adv. Mass Spectrom., Vol. 14, Karjalainen, et al., (eds.) 1998, Elsevier, Amsterdam.	
Examiner Signature		Date Considered	

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